

FIG. / A

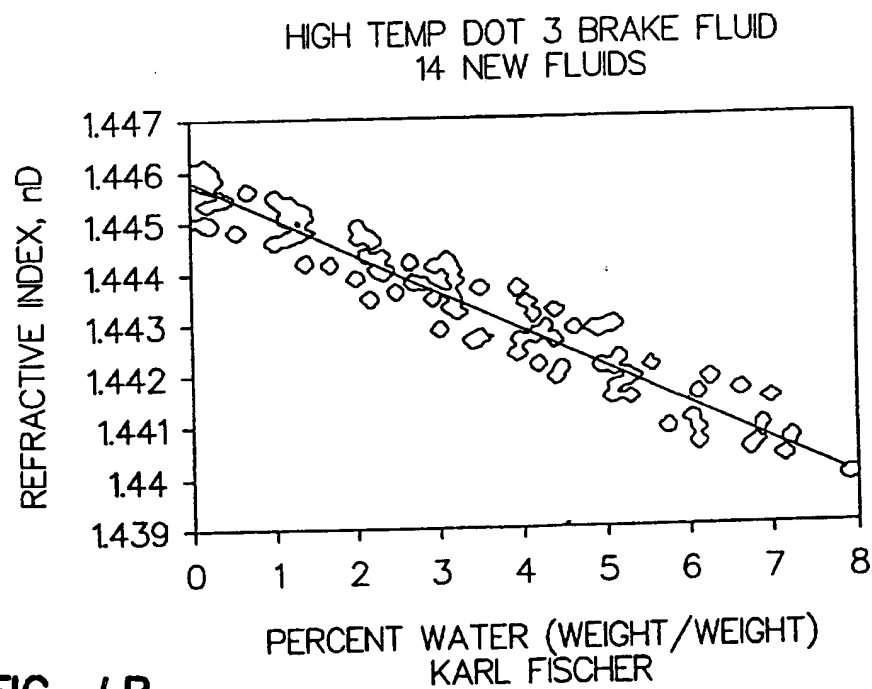


FIG. / B

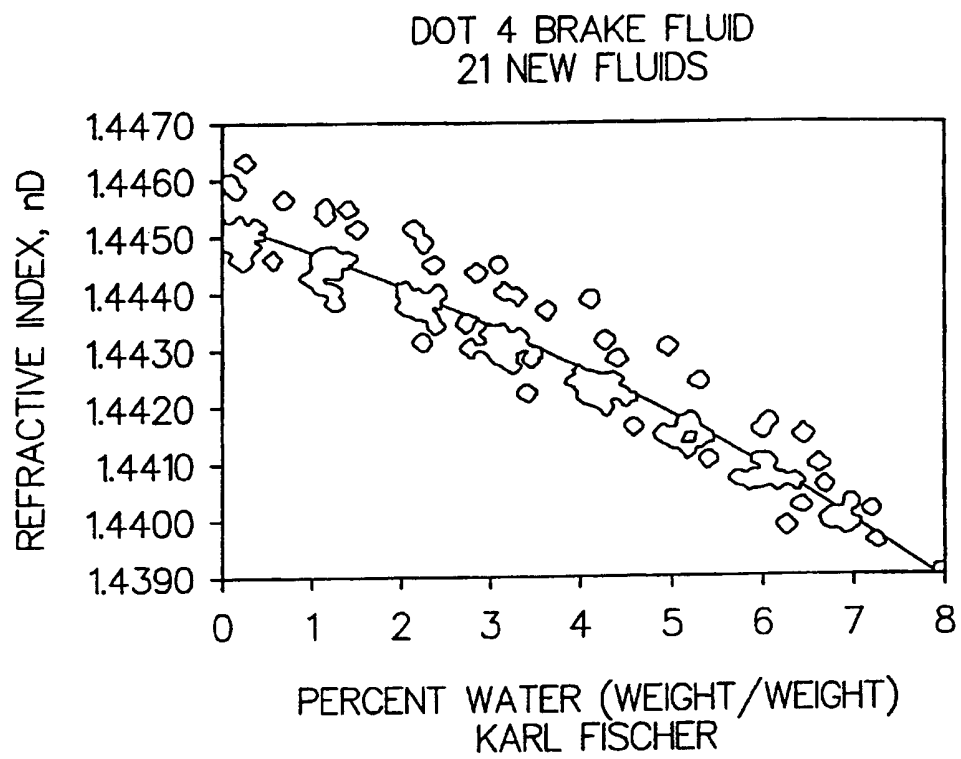


FIG. 1 C

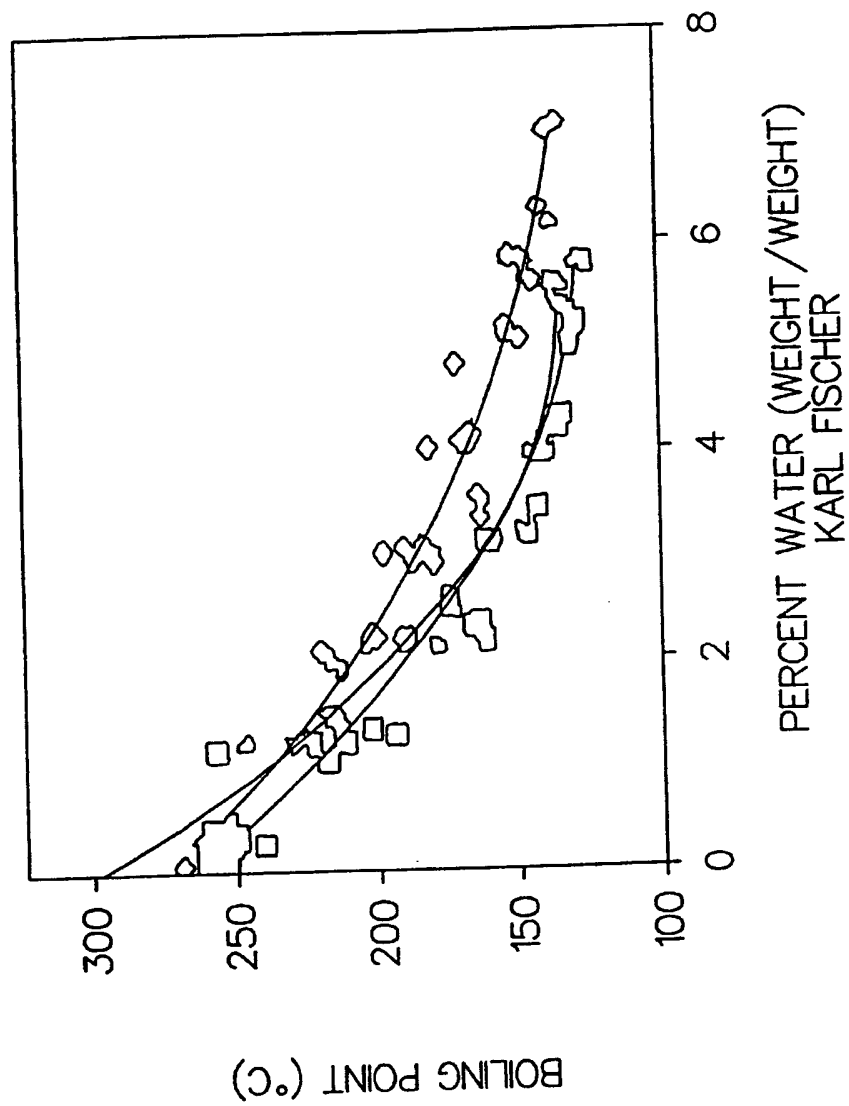


FIG. 2

DOT 3, N=7

	BOILING POINT	PERCENT H ₂ O (WT./WT.)	REFRACTIVE INDEX, n _D
FRESH BOILING POINT	252 C. +/- 7 C.	0.23 +/- 0.14	1.4435 +/- 0.0004
RANGE	240-262 C.	0.06-0.42	1.4428-1.4440
MIN. DRY BOILING POINT	250 C.	1.15 +/- 0.38	1.4429 +/- 0.0004
RANGE			
MIN. WET BOILING POINT	140 C.	4.4 +/- 0.3	1.4406 +/- 0.0004
RANGE			

HIGH TEMP DOT 3, N = 6

FRESH BOILING POINT	281 C.	0.14	1.4457
	+/- 18 C.	+/- 0.07	+/- 0.0004
RANGE	263-305 C.	0.07-.26	1.4449-1.4460
MIN. DRY BOILING POINT	205 C.	1.56	1.4447
		+/- 0.35	+/- 0.0004
MIN. WET BOILING POINT	140 C.	4.65	1.4425
		+/- 0.39	+/- 0.0004

DOT 4, N = 9

FRESH BOILING POINT	259 C.	0.18	1.4452
	+/- 18 C.	+/- 0.08	+/- 0.0005
RANGE	248-264 C.	0.06-0.30	1.4448-1.4462
MIN. DRY BOILING POINT	230 C.	1.11	1.4447
		+/- 0.28	+/- 0.0005
MIN. WET BOILING POINT	155 C.	5.1	1.4418
		+/- 0.46	+/- 0.0005

FIG. 3

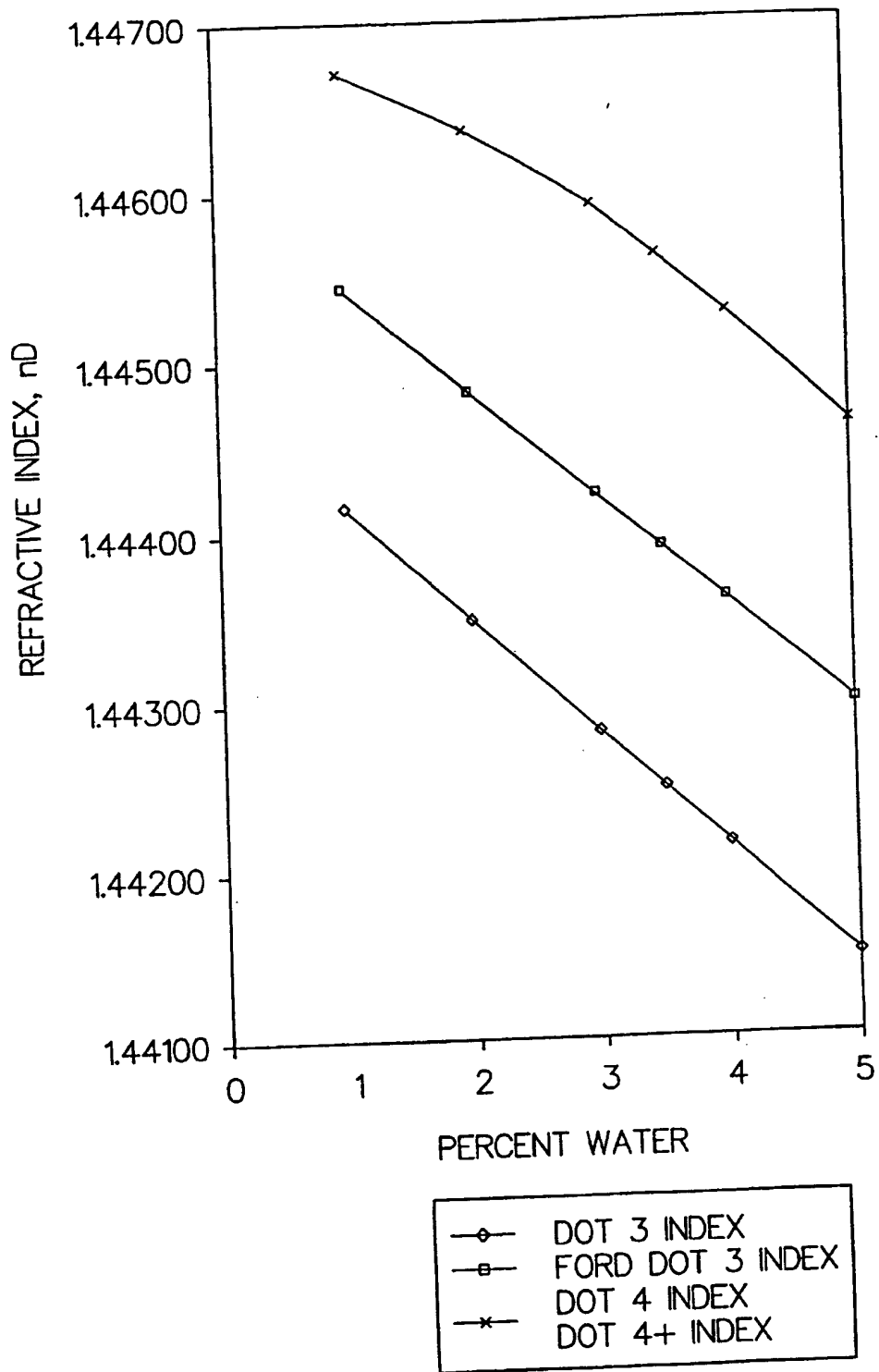


FIG. 4

WATER CONCENTRATION PERCENT (WEIGHT/WEIGHT)	DOT 3 N = 9	DOT 4 N = 7
NEW	-0.00038 +/- 0.00002	-0.00041 +/- 0.00004
2%	-0.00038 +/- 0.00003	-0.00040 +/- 0.00004
4%	-0.00039 +/- 0.00002	-0.00039 +/- 0.00003
6%	-0.00037 +/- 0.00003	-0.00038 +/- 0.00002
USED FLUID, N = 101	-0.00037 +/- 0.000014	

FIG. 5

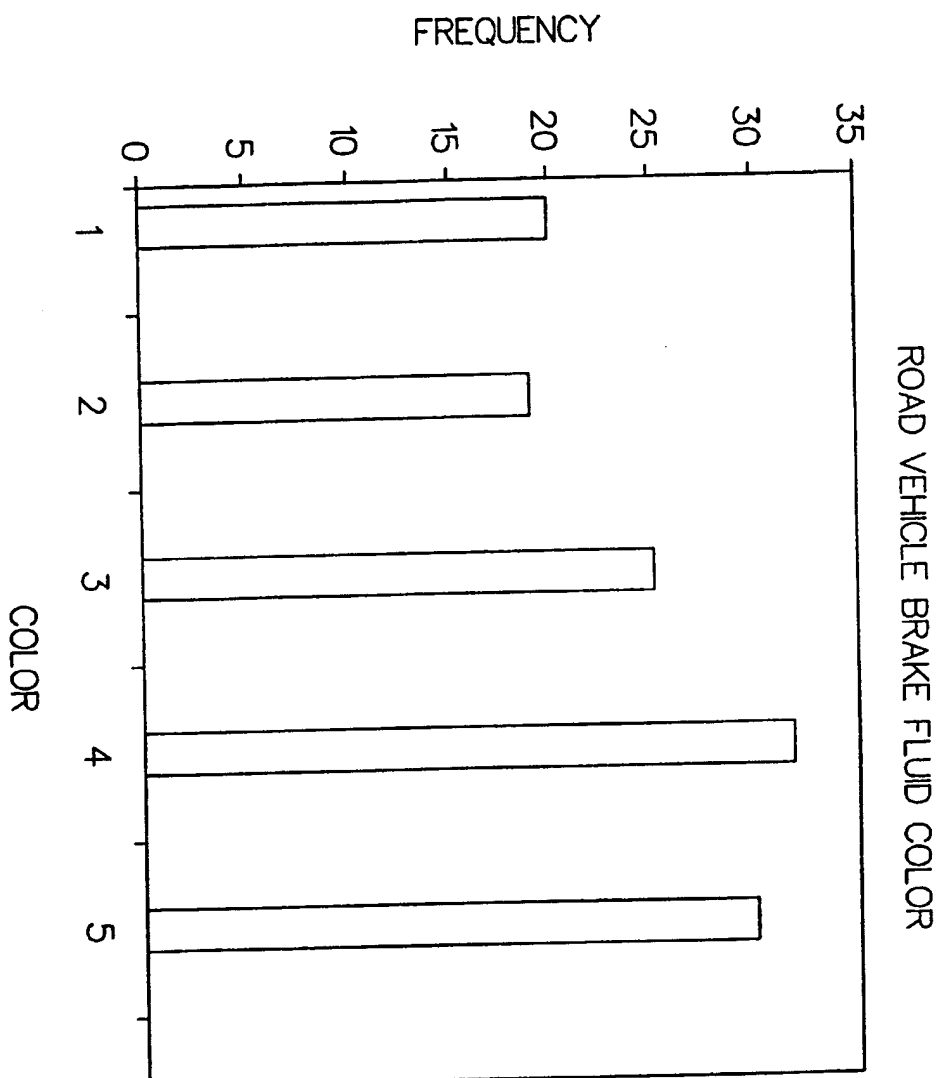


FIG. 7

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (a), 10⁷ cells/ml (b), 10⁸ cells/ml (c), 10⁹ cells/ml (d), 10¹⁰ cells/ml (e), 10¹¹ cells/ml (f), 10¹² cells/ml (g), 10¹³ cells/ml (h), 10¹⁴ cells/ml (i), 10¹⁵ cells/ml (j), 10¹⁶ cells/ml (k), 10¹⁷ cells/ml (l), 10¹⁸ cells/ml (m), 10¹⁹ cells/ml (n), 10²⁰ cells/ml (o), 10²¹ cells/ml (p), 10²² cells/ml (q), 10²³ cells/ml (r), 10²⁴ cells/ml (s), 10²⁵ cells/ml (t), 10²⁶ cells/ml (u), 10²⁷ cells/ml (v), 10²⁸ cells/ml (w), 10²⁹ cells/ml (x), 10³⁰ cells/ml (y), 10³¹ cells/ml (z), 10³² cells/ml (aa), 10³³ cells/ml (ab), 10³⁴ cells/ml (ac), 10³⁵ cells/ml (ad), 10³⁶ cells/ml (ae), 10³⁷ cells/ml (af), 10³⁸ cells/ml (ag), 10³⁹ cells/ml (ah), 10⁴⁰ cells/ml (ai), 10⁴¹ cells/ml (aj), 10⁴² cells/ml (ak), 10⁴³ cells/ml (al), 10⁴⁴ cells/ml (am), 10⁴⁵ cells/ml (an), 10⁴⁶ cells/ml (ao), 10⁴⁷ cells/ml (ap), 10⁴⁸ cells/ml (aq), 10⁴⁹ cells/ml (ar), 10⁵⁰ cells/ml (as), 10⁵¹ cells/ml (at), 10⁵² cells/ml (au), 10⁵³ cells/ml (av), 10⁵⁴ cells/ml (aw), 10⁵⁵ cells/ml (ax), 10⁵⁶ cells/ml (ay), 10⁵⁷ cells/ml (az), 10⁵⁸ cells/ml (ba), 10⁵⁹ cells/ml (bb), 10⁶⁰ cells/ml (bc), 10⁶¹ cells/ml (bd), 10⁶² cells/ml (be), 10⁶³ cells/ml (bf), 10⁶⁴ cells/ml (bg), 10⁶⁵ cells/ml (bh), 10⁶⁶ cells/ml (bi), 10⁶⁷ cells/ml (bj), 10⁶⁸ cells/ml (bk), 10⁶⁹ cells/ml (bl), 10⁷⁰ cells/ml (bm), 10⁷¹ cells/ml (bn), 10⁷² cells/ml (bo), 10⁷³ cells/ml (bp), 10⁷⁴ cells/ml (bq), 10⁷⁵ cells/ml (br), 10⁷⁶ cells/ml (bs), 10⁷⁷ cells/ml (bt), 10⁷⁸ cells/ml (bu), 10⁷⁹ cells/ml (bv), 10⁸⁰ cells/ml (bw), 10⁸¹ cells/ml (bx), 10⁸² cells/ml (by), 10⁸³ cells/ml (bz), 10⁸⁴ cells/ml (ca), 10⁸⁵ cells/ml (cb), 10⁸⁶ cells/ml (cc), 10⁸⁷ cells/ml (cd), 10⁸⁸ cells/ml (ce), 10⁸⁹ cells/ml (cf), 10⁹⁰ cells/ml (cg), 10⁹¹ cells/ml (ch), 10⁹² cells/ml (ci), 10⁹³ cells/ml (cj), 10⁹⁴ cells/ml (ck), 10⁹⁵ cells/ml (cl), 10⁹⁶ cells/ml (cm), 10⁹⁷ cells/ml (cn), 10⁹⁸ cells/ml (co), 10⁹⁹ cells/ml (cp), 10¹⁰⁰ cells/ml (cq), 10¹⁰¹ cells/ml (cr), 10¹⁰² cells/ml (cs), 10¹⁰³ cells/ml (ct), 10¹⁰⁴ cells/ml (cu), 10¹⁰⁵ cells/ml (cv), 10¹⁰⁶ cells/ml (cw), 10¹⁰⁷ cells/ml (cx), 10¹⁰⁸ cells/ml (cy), 10¹⁰⁹ cells/ml (cz), 10¹¹⁰ cells/ml (da), 10¹¹¹ cells/ml (db), 10¹¹² cells/ml (dc), 10¹¹³ cells/ml (dd), 10¹¹⁴ cells/ml (de), 10¹¹⁵ cells/ml (df), 10¹¹⁶ cells/ml (dg), 10¹¹⁷ cells/ml (dh), 10¹¹⁸ cells/ml (di), 10¹¹⁹ cells/ml (dj), 10¹²⁰ cells/ml (dk), 10¹²¹ cells/ml (dl), 10¹²² cells/ml (dm), 10¹²³ cells/ml (dn), 10¹²⁴ cells/ml (do), 10¹²⁵ cells/ml (dp), 10¹²⁶ cells/ml (dq), 10¹²⁷ cells/ml (dr), 10¹²⁸ cells/ml (ds), 10¹²⁹ cells/ml (dt), 10¹³⁰ cells/ml (du), 10¹³¹ cells/ml (dv), 10¹³² cells/ml (dw), 10¹³³ cells/ml (dx), 10¹³⁴ cells/ml (dy), 10¹³⁵ cells/ml (dz), 10¹³⁶ cells/ml (ea), 10¹³⁷ cells/ml (eb), 10¹³⁸ cells/ml (ec), 10¹³⁹ cells/ml (ed), 10¹⁴⁰ cells/ml (ee), 10¹⁴¹ cells/ml (ef), 10¹⁴² cells/ml (eg), 10¹⁴³ cells/ml (eh), 10¹⁴⁴ cells/ml (ei), 10¹⁴⁵ cells/ml (ej), 10¹⁴⁶ cells/ml (ek), 10¹⁴⁷ cells/ml (el), 10¹⁴⁸ cells/ml (em), 10¹⁴⁹ cells/ml (en), 10¹⁵⁰ cells/ml (eo), 10¹⁵¹ cells/ml (ep), 10¹⁵² cells/ml (eq), 10¹⁵³ cells/ml (er), 10¹⁵⁴ cells/ml (es), 10¹⁵⁵ cells/ml (et), 10¹⁵⁶ cells/ml (eu), 10¹⁵⁷ cells/ml (ev), 10¹⁵⁸ cells/ml (ew), 10¹⁵⁹ cells/ml (ex), 10¹⁶⁰ cells/ml (ey), 10¹⁶¹ cells/ml (ez), 10¹⁶² cells/ml (fa), 10¹⁶³ cells/ml (fb), 10¹⁶⁴ cells/ml (fc), 10¹⁶⁵ cells/ml (fd), 10¹⁶⁶ cells/ml (fe), 10¹⁶⁷ cells/ml (ff), 10¹⁶⁸ cells/ml (fg), 10¹⁶⁹ cells/ml (fh), 10¹⁷⁰ cells/ml (fi), 10¹⁷¹ cells/ml (fj), 10¹⁷² cells/ml (fk), 10¹⁷³ cells/ml (fl), 10¹⁷⁴ cells/ml (fm), 10¹⁷⁵ cells/ml (fn), 10¹⁷⁶ cells/ml (fo), 10¹⁷⁷ cells/ml (fp), 10¹⁷⁸ cells/ml (fq), 10¹⁷⁹ cells/ml (fr), 10¹⁸⁰ cells/ml (fs), 10¹⁸¹ cells/ml (ft), 10¹⁸² cells/ml (fu), 10¹⁸³ cells/ml (fv), 10¹⁸⁴ cells/ml (fw), 10¹⁸⁵ cells/ml (fx), 10¹⁸⁶ cells/ml (fy), 10¹⁸⁷ cells/ml (fz), 10¹⁸⁸ cells/ml (ga), 10¹⁸⁹ cells/ml (gb), 10¹⁹⁰ cells/ml (gc), 10¹⁹¹ cells/ml (gd), 10¹⁹² cells/ml (ge), 10¹⁹³ cells/ml (gf), 10¹⁹⁴ cells/ml (gg), 10¹⁹⁵ cells/ml (gh), 10¹⁹⁶ cells/ml (gi), 10¹⁹⁷ cells/ml (gj), 10¹⁹⁸ cells/ml (gk), 10¹⁹⁹ cells/ml (gl), 10²⁰⁰ cells/ml (gm), 10²⁰¹ cells/ml (gn), 10²⁰² cells/ml (go), 10²⁰³ cells/ml (gp), 10²⁰⁴ cells/ml (gq), 10²⁰⁵ cells/ml (gr), 10²⁰⁶ cells/ml (gs), 10²⁰⁷ cells/ml (gt), 10²⁰⁸ cells/ml (gu), 10²⁰⁹ cells/ml (gv), 10²¹⁰ cells/ml (gw), 10²¹¹ cells/ml (gx), 10²¹² cells/ml (gy), 10²¹³ cells/ml (gz), 10²¹⁴ cells/ml (ha), 10²¹⁵ cells/ml (hb), 10²¹⁶ cells/ml (hc), 10²¹⁷ cells/ml (hd), 10²¹⁸ cells/ml (he), 10²¹⁹ cells/ml (hf), 10²²⁰ cells/ml (hg), 10²²¹ cells/ml (hi), 10²²² cells/ml (hj), 10²²³ cells/ml (hk), 10²²⁴ cells/ml (hl), 10²²⁵ cells/ml (hm), 10²²⁶ cells/ml (hn), 10²²⁷ cells/ml (ho), 10²²⁸ cells/ml (hp), 10²²⁹ cells/ml (hq), 10²³⁰ cells/ml (hr), 10²³¹ cells/ml (hs), 10²³² cells/ml (ht), 10²³³ cells/ml (hu), 10²³⁴ cells/ml (hv), 10²³⁵ cells/ml (hw), 10²³⁶ cells/ml (hx), 10²³⁷ cells/ml (hy), 10²³⁸ cells/ml (hz), 10²³⁹ cells/ml (ia), 10²⁴⁰ cells/ml (ib), 10²⁴¹ cells/ml (ic), 10²⁴² cells/ml (id), 10²⁴³ cells/ml (ie), 10²⁴⁴ cells/ml (if), 10²⁴⁵ cells/ml (ig), 10²⁴⁶ cells/ml (ih), 10²⁴⁷ cells/ml (ii), 10²⁴⁸ cells/ml (ij),

IN USE VEHICLES
N = 125

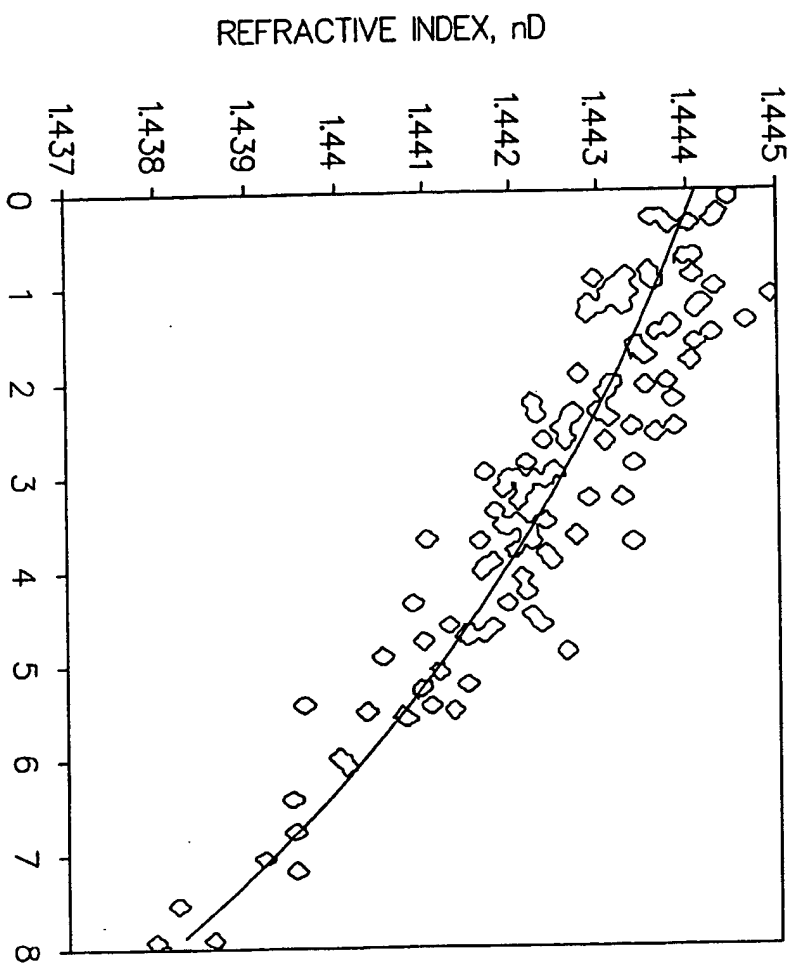


FIG. 8
KARL FISCHER

REFRACTIVE INDEX, nD

1.4470
1.4460
1.4450
1.4440
1.4430
1.4420
1.4410
1.4400
1.4390
1.4380
1.4370

0.00 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00

--- HIGH TEMP DOT 3
--- USED FLUID
— DOT 3

Detailed description: This is a line graph showing the refractive index (nD) of DOT 3 fluid at high temperature and the refractive index of used fluid. The y-axis represents the refractive index, ranging from 1.4370 to 1.4470 in increments of 0.0010. The x-axis represents the wavelength in micrometers, ranging from 0.00 to 9.00 in increments of 1.00. There are three data series: 'HIGH TEMP DOT 3' represented by a dashed line, 'USED FLUID' represented by a solid line, and 'DOT 3' represented by a solid line with open circle markers. The 'DOT 3' data points follow a downward trend from approximately 1.4445 at 0.5 micrometers to 1.4385 at 8.5 micrometers. The 'HIGH TEMP DOT 3' line is a smooth curve that starts at approximately 1.4440 at 0.5 micrometers and decreases to approximately 1.4380 at 8.5 micrometers. The 'USED FLUID' line is a solid line that starts at approximately 1.4440 at 0.5 micrometers and decreases to approximately 1.4380 at 8.5 micrometers, closely following the 'DOT 3' data points.

FIG. 9

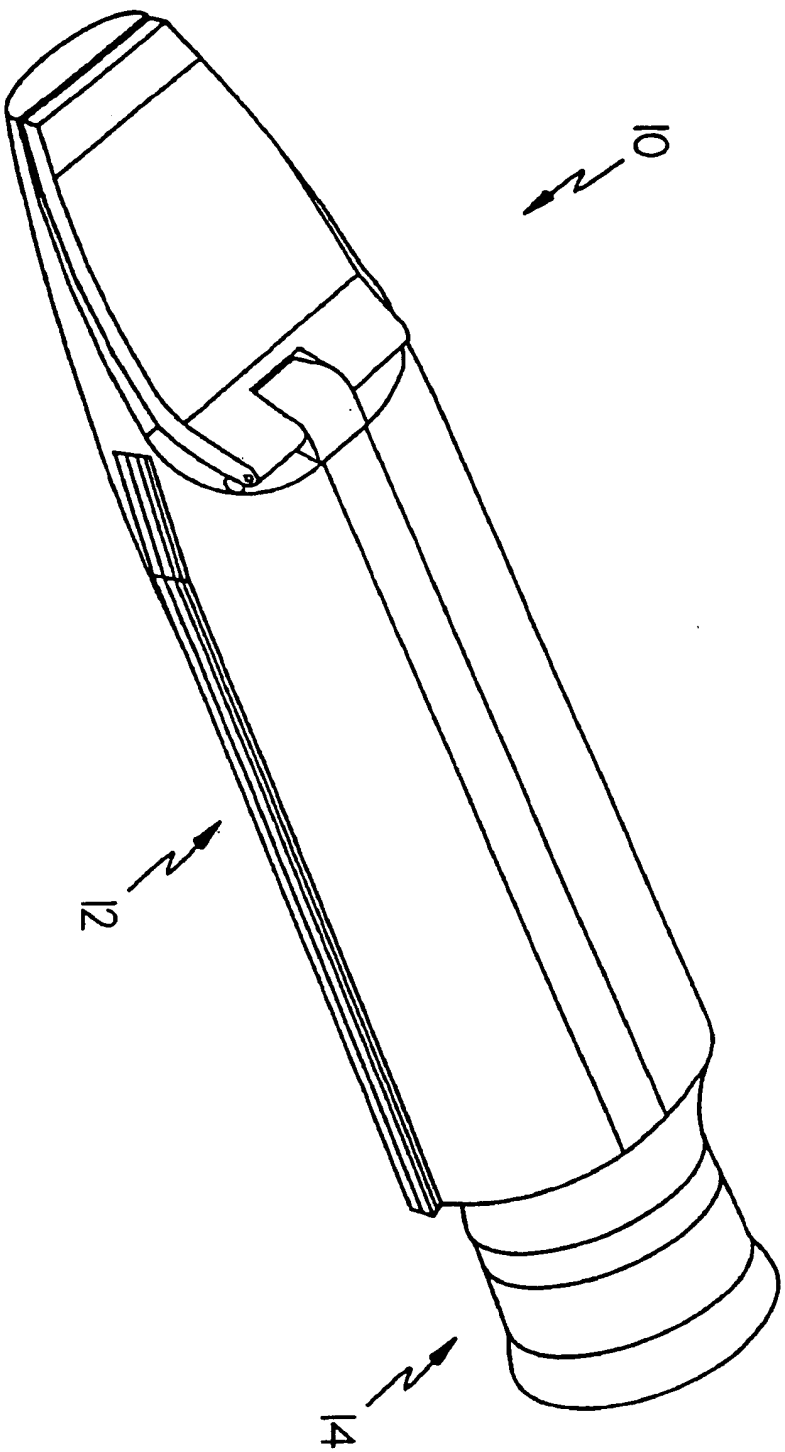


FIG. 10

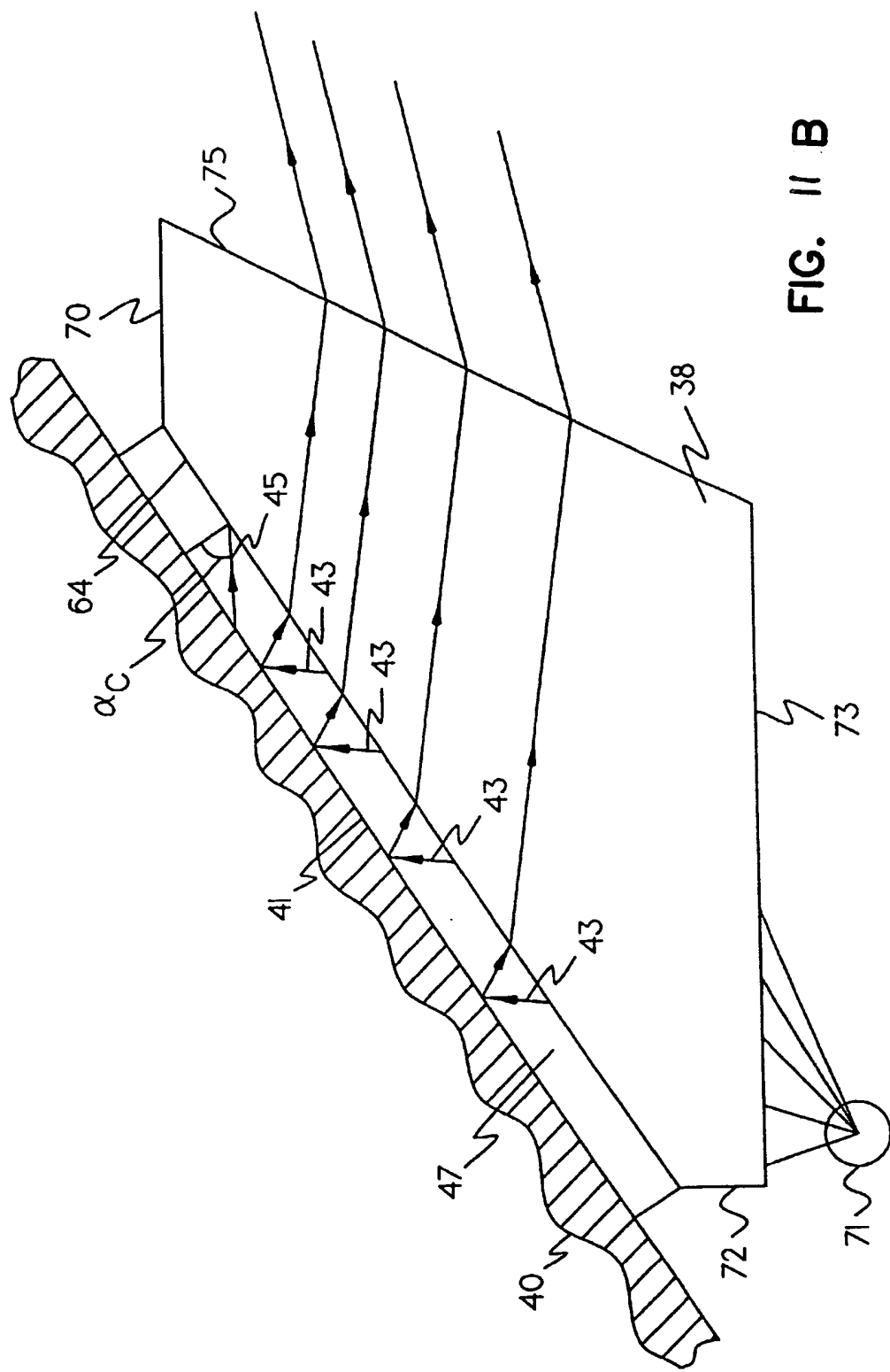


FIG. 11 B

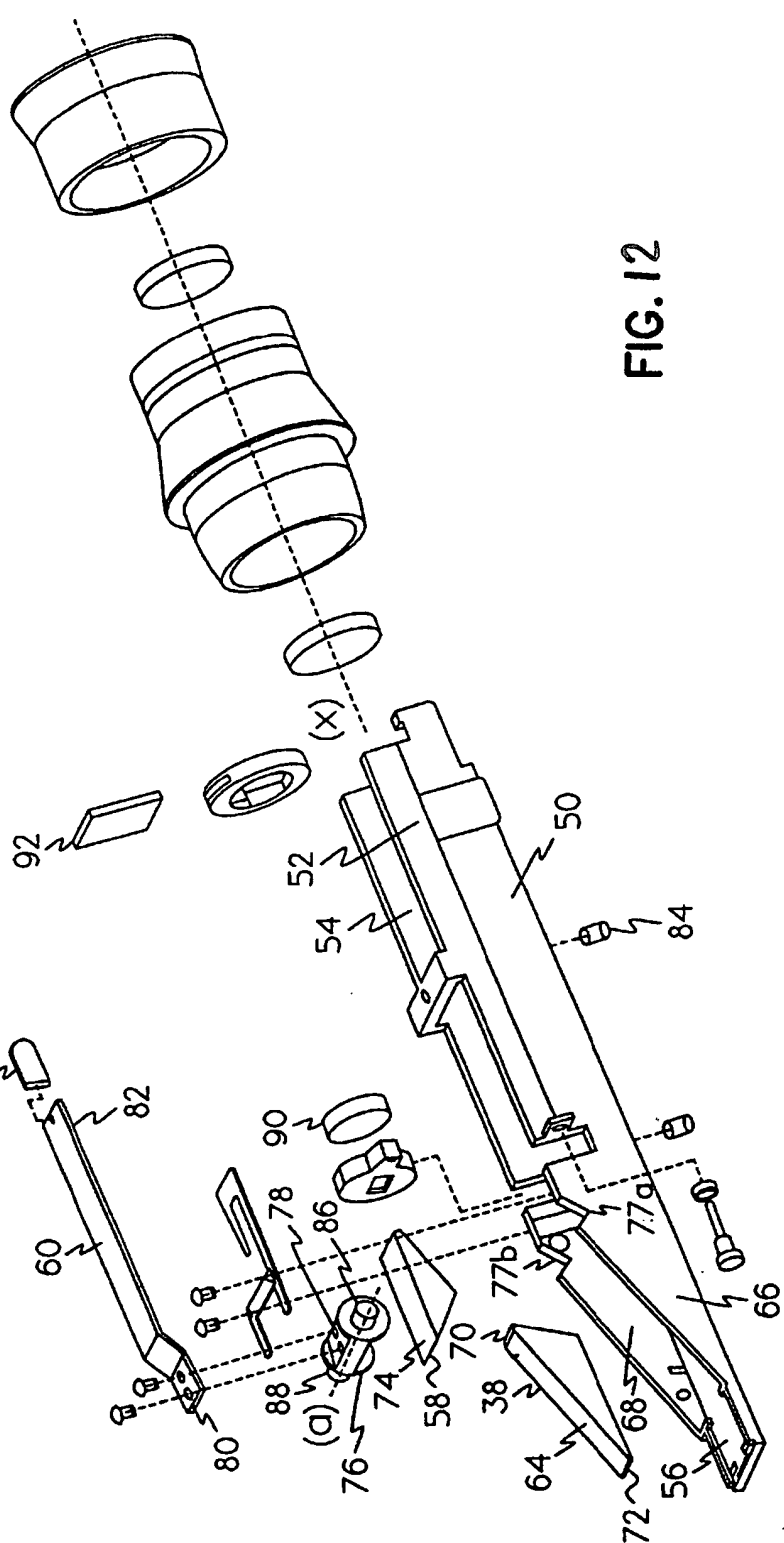


FIG. 12

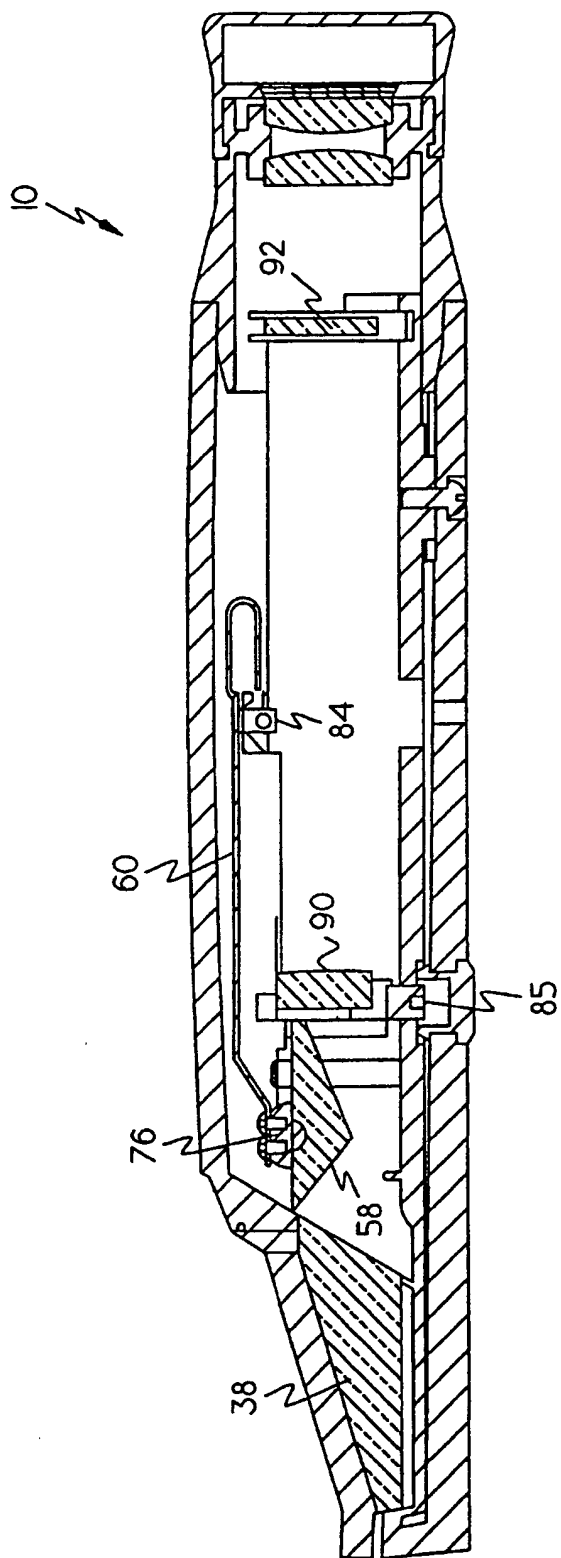


FIG. 13 A

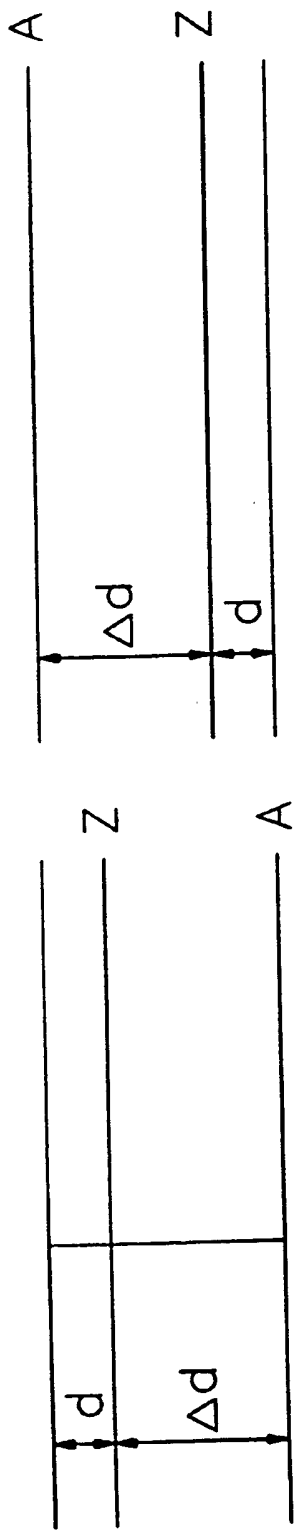


FIG. 13 B

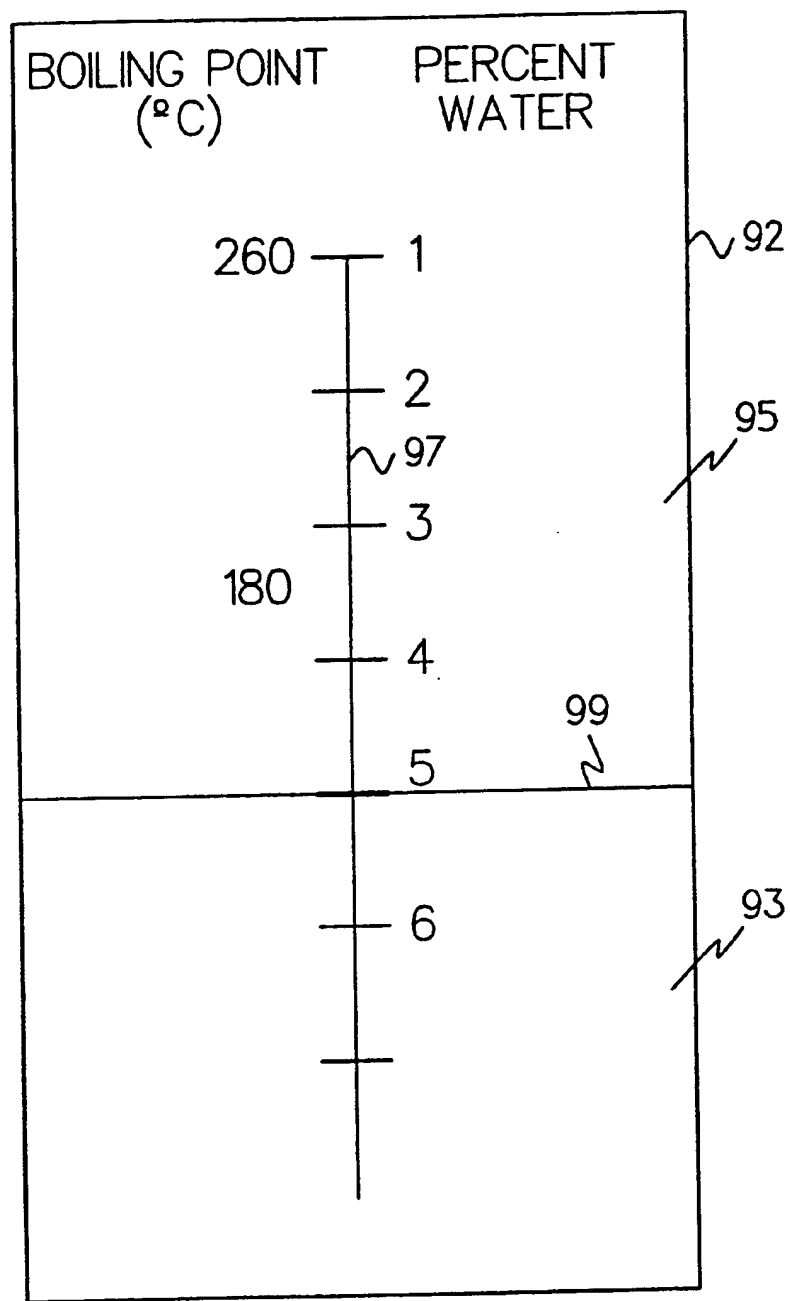


FIG. 13 C

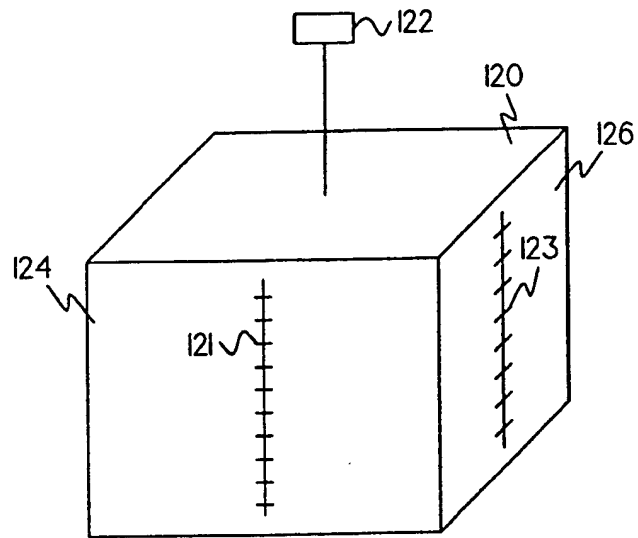


FIG. 13D

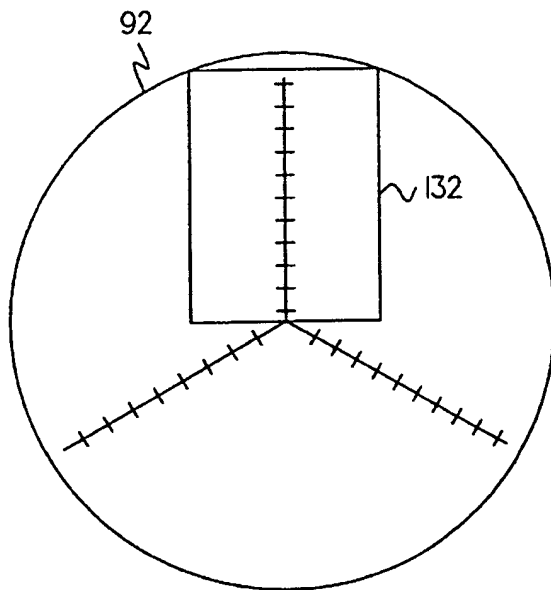


FIG. 13E

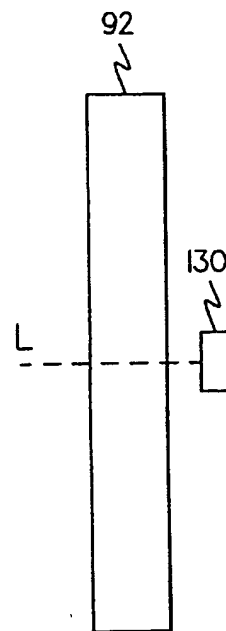


FIG. 13 F

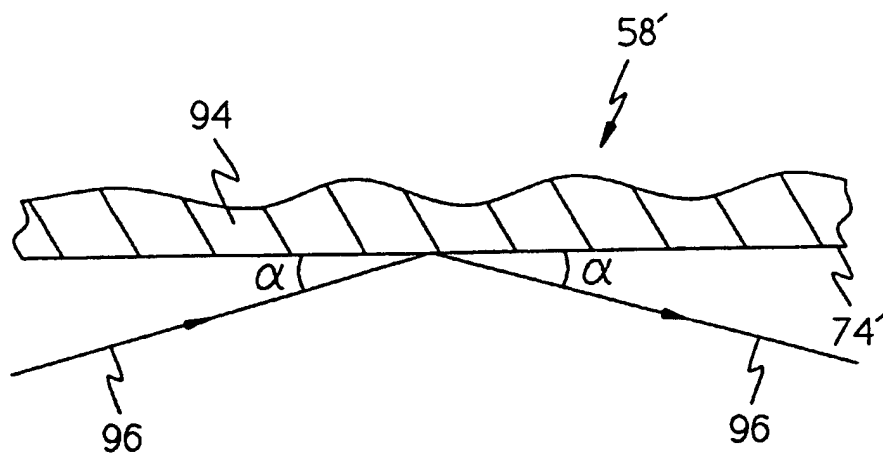


FIG. 14 A

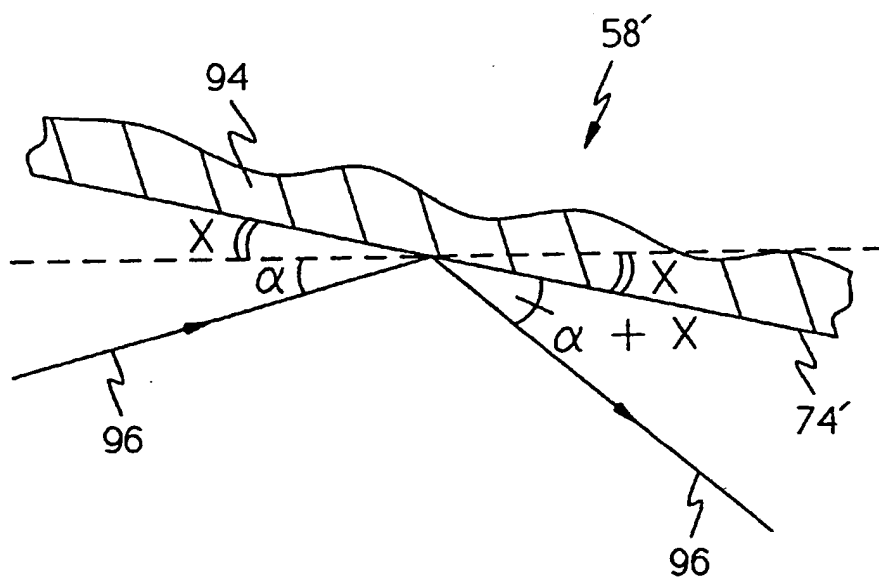


FIG. 14 B

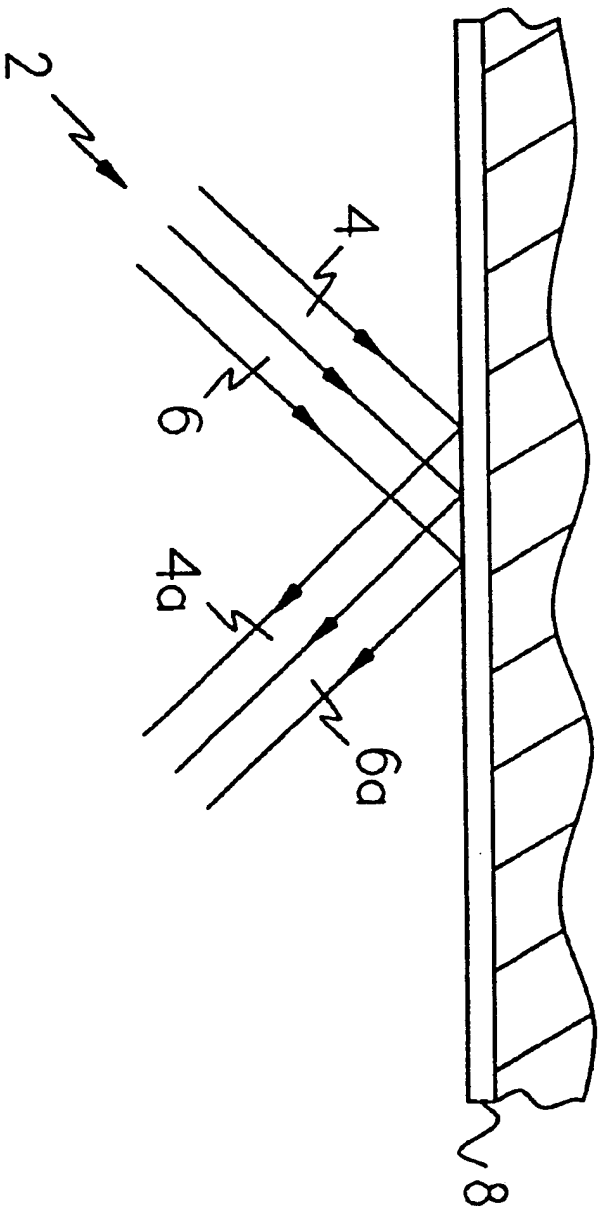


FIG. 15

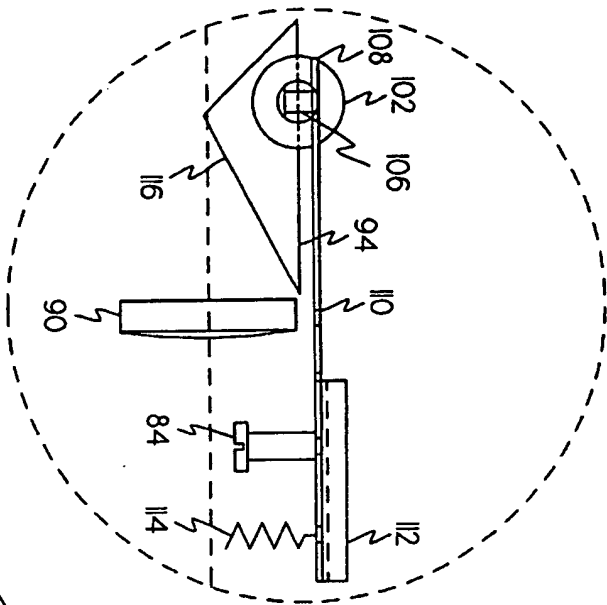


FIG. 16A

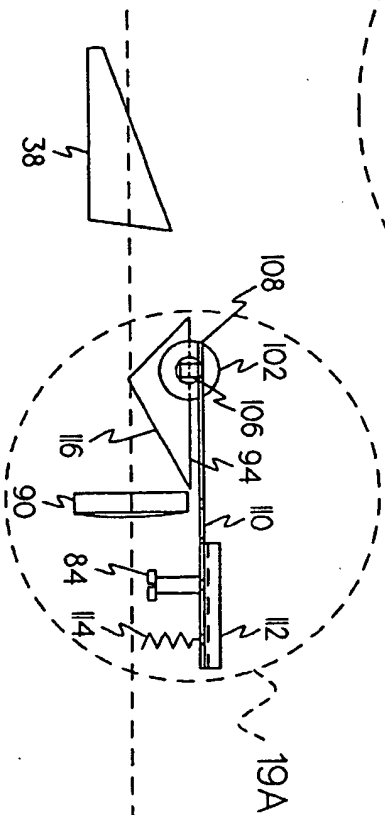
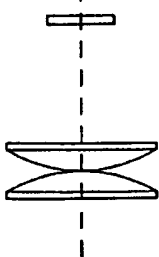
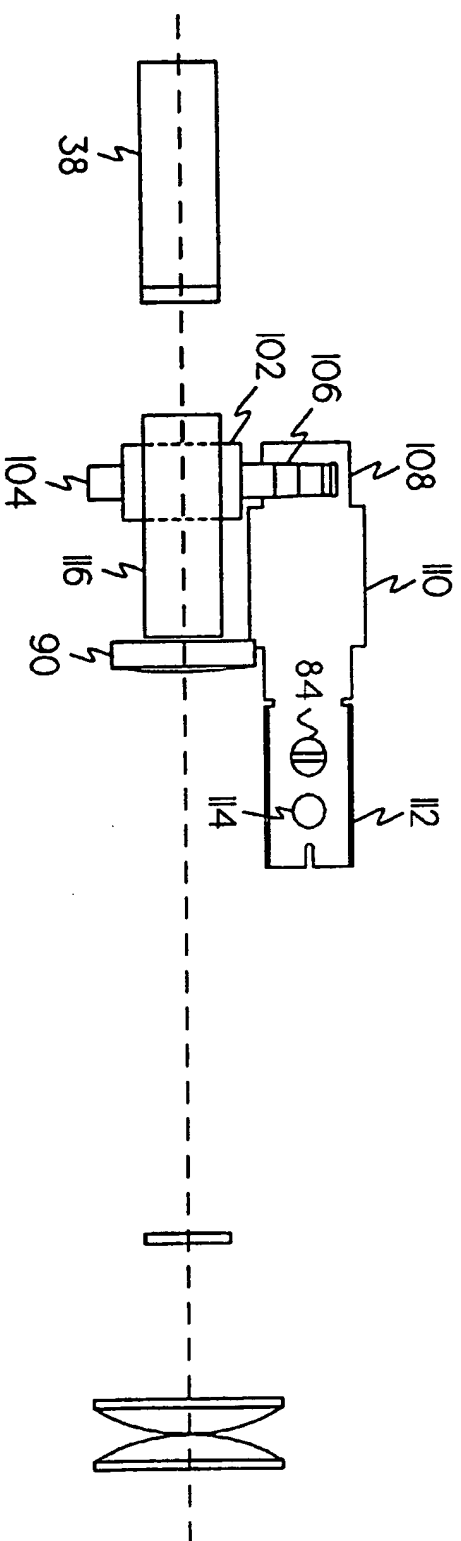


FIG. 16B





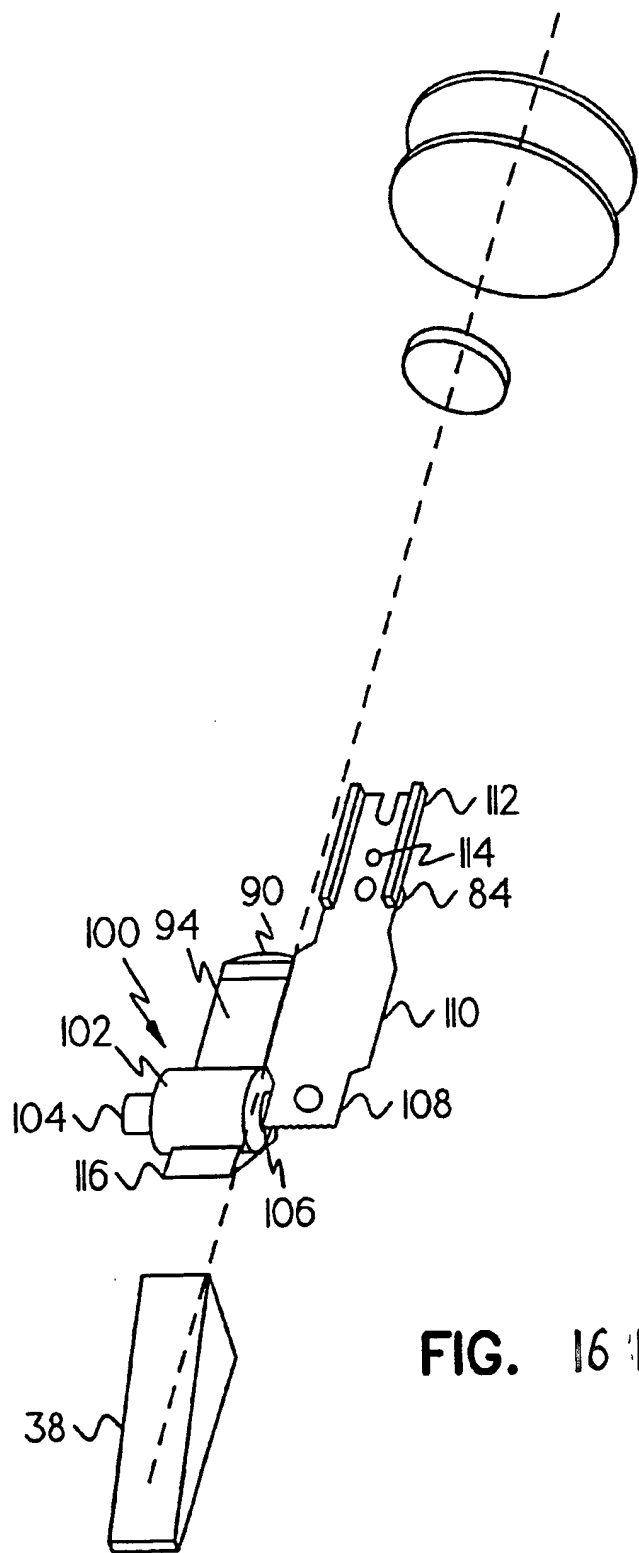


FIG. 16 D

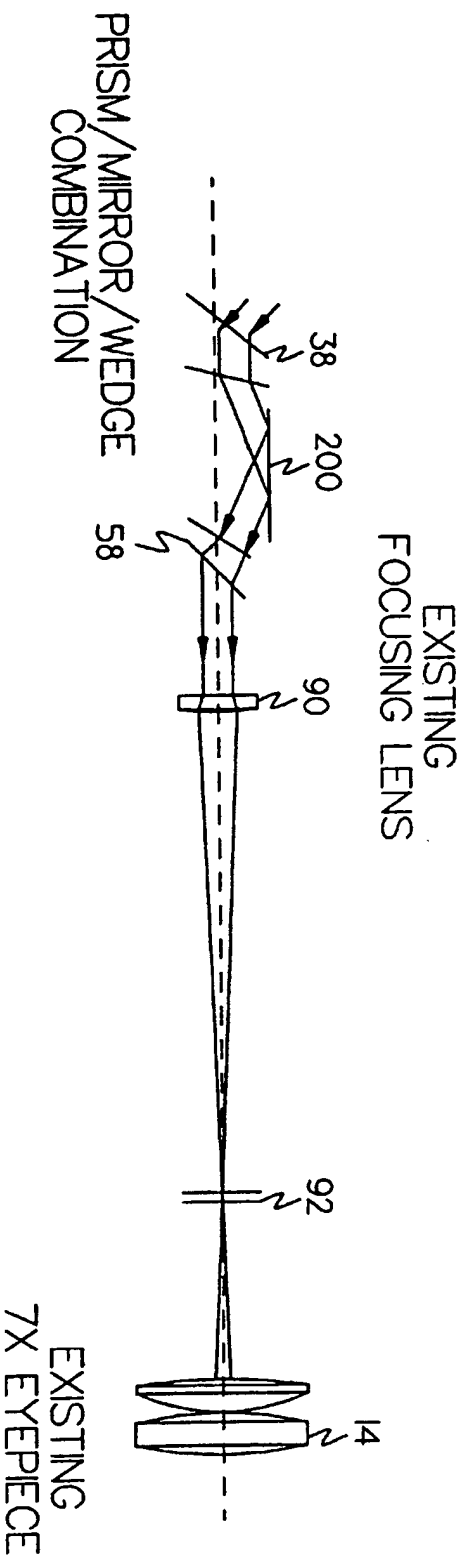


FIG. 17

